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ABSTRACT

The topics covered by 47 booklets in the series are indexed. Page references are not given, but the booklet covering each topic is indicated by a code explained in the first two pages of the index. A brief account of the educational services program of the Atomic Energy Commission describing the booklets, films, and other services provided for secondary school students and teachers is appended. Topics covered by the series include applications of radioisotopes in industry, aerospace, agriculture, medicine, and scientific research; effects and sources of natural and artificial radiation; descriptions of nuclear facilities and reactors and their operations; and the chemistry of radioactive elements of other substances studied by Atomic Energy Commission scientists. A booklet on careers and a glossary are included in the series. (AL)

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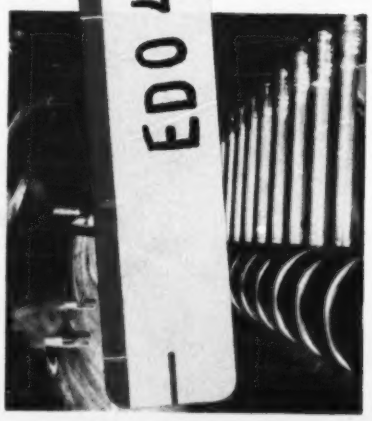

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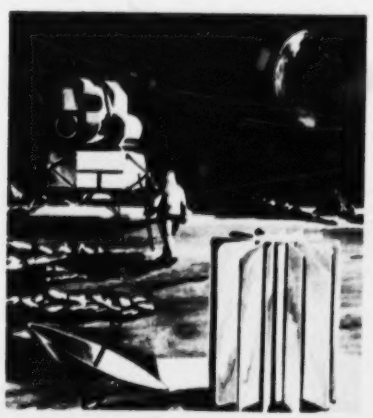

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The Understanding the Atom Series

Nuclear Energy is playing a vital role in the life of every man, woman, and child in the United States today. In the years ahead it will affect increasingly all the peoples of the earth. It is essential that all Americans gain an understanding of this vital force if they are to discharge thoughtfully their responsibilities as citizens and if they are to realize fully the myriad benefits that nuclear energy offers them.

The United States Atomic Energy Commission provides this booklet to help you achieve such understanding.

Edward J. Brunenkant

Edward J. Brunenkant, Director
Division of Technical Information

UNITED STATES ATOMIC ENERGY COMMISSION

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Introduction to the Index

Nuclear science comprises many categories of knowledge, many distinct scientific disciplines, and many experimental approaches. Its theories reinforce, complement, and supplement much other theory. Its basic technology is interwoven with the techniques and equipment common to all science. Applications of nuclear energy are found in industrial, governmental, medical, engineering, agricultural, and business enterprises.

This index has been prepared to provide a key to these many doors, by introducing users of the *Understanding the Atom* booklets to the complete subject matter embraced in the series. It is intended to help students and teachers locate points of their specific interests, and to provide a means for correlating the various principles and uses of atomic energy. In this endeavor it also may help to supply insight.

The index covers all booklets in the *Understanding the Atom* series. Titles of these are arranged alphabetically on the pages following, together with the codes used for identification of the booklets in the body of the index.

This publication was prepared to aid students and teachers who have several volumes or complete sets of the *Understanding the Atom* booklets available. As the series is enlarged or modified, new versions of this index are prepared.

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Abbreviation Listing by Title

ACCELERATORS	ACC
ANIMALS IN ATOMIC RESEARCH	AAR
ATOMIC FUEL	ATF
ATOMIC POWER SAFETY	APS
ATOMS AT THE SCIENCE FAIR	ASF
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Abbreviation Listing by Code

AAO	THE ATOM AND THE OCEAN
AAR	ANIMALS IN ATOMIC RESEARCH
ACC	ACCELERATORS
AIA	ATOMS IN AGRICULTURE
ANM	ATOMS, NATURE, AND MAN
APS	ATOMIC POWER SAFETY
ASF	ATOMS AT THE SCIENCE FAIR
ATF	ATOMIC FUEL
CAE	CAREERS IN ATOMIC ENERGY
CNF	CONTROLLED NUCLEAR FUSION
COM	COMPUTERS
CRY	CRYOGENICS
DCE	DIRECT CONVERSION OF ENERGY
FNT	FALLOUT FROM NUCLEAR TESTS
FPI	FOOD PRESERVATION BY IRRADIATION
GER	GENETIC EFFECTS OF RADIATION
LAS	LASERS
MSM	MICROSTRUCTURE OF MATTER
NAA	NEUTRON ACTIVATION ANALYSIS
NCL	NUCLEAR CLOCKS
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NPP	NUCLEAR POWER PLANTS
NPR	NUCLEAR PROPULSION FOR SPACE
NPS	NUCLEAR POWER AND MERCHANT SHIPPING
NRC	NUCLEAR REACTORS
NTG	NUCLEAR TERMS, A BRIEF GLOSSARY
OAW	OUR ATOMIC WORLD
PFR	POWER FROM RADIOISOTOPES
PLU	PLUTONIUM
PRP	POWER REACTORS IN SMALL PACKAGES
PSH	PLOWSHARE
RAE	READING RESOURCES IN ATOMIC ENERGY
RAW	RADIOACTIVE WASTES
REA	RARE EARTHS, THE FRATERNAL FIFTEEN
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RII	RADIOISOTOPES IN INDUSTRY
RIM	RADIOISOTOPES IN MEDICINE
RLP	RADIOISOTOPES AND LIFE PROCESSES
SNF	SOURCE OF NUCLEAR FUEL
SNP	SNAP: NUCLEAR SPACE REACTORS
SPR	SPACE RADIATION
STE	SYNTHETIC TRANSURANIUM ELEMENTS
TFR	THE FIRST REACTOR
TNG	THE CHEMISTRY OF THE NOBLE GASES
WBC	WHOLE BODY COUNTERS
YBR	YOUR BODY AND RADIATION

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